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Monthly Oversight Report 31
ACS NPL Site
Griffith, Indiana
June 28, 2003 - August 1, 2003

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Black & Veatch Special Projects Corp.

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USEPA/RAC VII

American Chemical Services RAO (057-ROBF-05J7)

BVSPC Project 46526 BVSPC File C.3 August 14, 2003

Mr. Kevin Adler U.S. Environmental Protection Agency 77 W. Jackson Boulevard (SR-6J) Chicago, Illinois 60604-3590

Subject:

Monthly Oversight Summary Report

No. 31 for July 2003

Dear Mr. Adler:

Enclosed is the Monthly Oversight Summary Report No. 31 for July 2003 for the American Chemical Services Superfund Site in Griffith, Indiana.

If you have any questions, please call (312-683-7856) or email (campbelllm@bv.com).

Sincerely,

BLACK & VEATCH Special Projects Corp.

Larry M. Campbell, P.E.

Site Manager

Enclosure

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# Monthly Oversight Summary Report No. 31 ACS Superfund Site WA57, 46526.238

Reporting Period: Month of July (June 27, 2003 - August 1, 2003)

**BVSPC O/S Dates:** July 3, 7, 10, 14, and 24, 2003

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	5	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Independent Environmental Services	2	ONCA SBPA ISVE System Yard Piping Contractor
Austgen	2	Electrical Contractor
Ryan Construction	5	General Contractor
Simalabs	1	GWTP Sampling Contractor

#### **Construction Activities**

#### **Major Activities:**

- Montgomery Watson Harza and Austgen completed testing and debugging the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system.
- Montgomery Watson Harza operated the On-Site Containment Area Still Bottoms Pond Area and Off-Site Containment Area in-situ soil vapor extraction systems intermittently during the reporting period.
- Montgomery Watson Harza gauged the water levels in the in-situ soil vapor extraction system wells and performed personal air monitoring.
- Independent Environmental Services and Montgomery Watson Harza gauged the water levels and inspected the air line connections to the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system dual phase extraction wells.
- Ryan Construction loaded excess concrete from the site into a rolloff box and disposed of the concrete offsite on July 25, 2003.
- Ryan Construction began installing a concrete retaining wall around the American Chemical Services's employee break room building in order to divert stormwater runoff and prevent flooding of the building.
- Montgomery Watson Harza performed routine maintenance activities on the groundwater treatment plant.
- Simalabs collected routine water samples from the groundwater treatment plant.

 Montgomery Watson Harza held construction coordination meetings on July 3, 10, and 24, 2003.

#### **Activities Performed:**

Montgomery Watson Harza (MWH) and Austgen continued system startup and testing of the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) in-situ soil vapor extraction (ISVE) system. MWH reported that it started the blower and simulated alarm conditions between the ONCA SBPA ISVE system and Thermal Oxidizer Unit 2. MWH tested the system by sending fresh air through the system. MWH reported that it sent process vapors briefly to Thermal Oxidizer Unit 2 to measure the response of the unit. MWH reported that the system programming was complete. MWH operated the ONCA SBPA and the Off-Site Containment Area (OFCA) ISVE systems intermittently during the reporting period. MWH reported that it consistently needed to perform maintenance on the nozzles and piping for both of the scrubbers to both Thermal Oxidizer Units 1 and 2. MWH reported that the nozzles would clog and reduce the quench water sprayed into the scrubber towers, thereby causing overheating of the scrubbers. MWH reported that it is investigating water softeners for the quench water to minimize the clogging of the nozzles. MWH also reported that it will continue to operate the ONCA SBPA and OFCA ISVE systems, maintaining the scrubbers as necessary. MWH reported that it will begin monitoring the ONCA SBPA ISVE system in accordance with the *Performance Standard Verification Plan* once consistent operation of the system is achieved.

MWH gauged the water levels in the OFCA and ONCA SBPA ISVE system wells on July 14, 2003. MWH followed its health and safety protocol for ISVE water level gauging as described in its letter dated July 3, 2003. MWH donned Level C respiratory protection and opened the ISVE wells, monitoring the breathing zone with a photoionization detector (PID) and flame ionization detector (FID). During water level gauging activities, MWH also conducted personal air monitoring. MWH performed air monitoring, measuring the concentration of benzene and acetone at the well with Drager tubes. One MWH representative wore an air sampling pump with charcoal tubes and badges. MWH reported that the badges would be analyzed for vinyl chloride and methylene chloride. MWH also reported that the charcoal tubes would be analyzed for 1,1,2,2-tetrachloroethane, methyl ethyl ketone, benzene, toluene, xylene, ethylbenzene, 1,2-dichloroethane, methyl isobutyl ketone, methyl chloroform, acetone, and perchloroethylene.

MWH and Independent Environmental Services (IES) measured the water levels and depth of product in the ONCA SBPA ISVE system dual phase extraction (DPE) wells on July 23, 2003. MWH reported that it observed oil in several of the DPE wells located on the eastern portion of the ONCA SBPA. MWH also reported that it and IES checked the air supply connections to the pneumatic pumps located in the DPE wells. MWH reported that half-face respirators were worn during the evaluation of the ONCA SBPA ISVE system DPE wells.

Ryan Construction consolidated excess concrete at the site during the week of June 30, 2003. MWH reported that the concrete was generated during the construction of the containment and sump for the thermal oxidizers and previous site activities. Ryan Construction disposed of the excess concrete on July 25, 2003, at a recyler.

Ryan Construction began constructing a concrete retaining wall surrounding the American Chemical Services (ACS) employee break room building. Ryan Construction installed the wall so that the stormwater from the ONCA SBPA cover would be diverted around the building. Ryan Construction completed the bottom of the curbing and installed the forms for the walls on July 24, 2003. Ryan Construction constructed the wall to surround the eastern, western, and southern walls of the building, allowing an approximately 3-feet-wide walkway between the building and the curb. MWH reported that Ryan Construction removed a portion of the ONCA SBPA clay cover to install the walkway. Ryan Construction placed the removed clay in two locations, one near a low spot at MW-10C, and at a second location east of the drum storage pad. Ryan Construction completed the retaining wall on July 28, 2003. MWH reported that Ryan Construction damaged part of the south wall of the ACS employee break room building and that the wall would be repaired in early August.

Black & Veatch Special Projects Corporation (BVSPC) observed several erosion gulleys in the ONCA SBPA interim gravel cover. BVSPC spoke with MWH about these areas of erosion and MWH reported that it will repair the erosion and will continue to monitor the cover.

MWH performed routine maintenance activities in the groundwater treatment plant (GWTP). MWH replaced the a flowmeter in the GWTP and cleaned pumps. MWH reported that the GWTP shut down on July 9, 2003, because of an electrical problem associated with the catalytic oxidizer sump. MWH repaired the electrical problem and resumed operating the GWTP on July 10, 2003. MWH also reported that the GWTP was again shut down for 3 hours on July 23, 2003, for maintenance on the catalytic oxidizer unit. MWH reported that it was extracting water from the west ONCA SBPA ISVE system DPE wells. MWH reported that it will evaluate pumping from the east ONCA SBPA ISVE system DPE wells because of the presence of product in these wells. MWH reported that it will clean out tank T-102 and perform additional maintenance activities on the GWTP during the upcoming weeks. MWH reported that the GWTP was operating at an average rate 20 gpm during the reporting period. Simalabs collected routine water samples from the GWTP.

MWH reported that Environmental Contractors of Illinois (ECI), the OFCA engineered cover contractor, would return to the site in August to add topsoil and reseed several thin areas of the cover. MWH also reported that it is evaluating a proposal submitted by Midwest Environmental, Inc. (MEI) to repair the erosion damage to the OFCA engineered cover.

Attached are BVSPC weekly reports No. 122 through 126, correspondence, log book notes, and photographs of the daily activities. BVSPC's crew conducted oversight of the major field activities on July 3, 7, 10, 14, and 24, 2003. BVSPC's crew attended three construction coordination meetings at the site on July 3, 10, and 24, 2003. MWH decided to begin holding biweekly construction coordination meetings because of the construction inactivity at the site.

#### **Topics of Concern:**

None to report.

#### **Concern Resolution:**

None to report.

# **Upcoming Activities:**

- MWH to begin operating the ONCA SBPA ISVE system consistently.
- Ryan Construction to repair the ACS employee break building.
- ECI to add topsoil and reseed the OFCA engineered cover.
- MEI to perform maintenance activities to address erosional damage to the OFCA engineered cover.
- MWH to perform maintenance activities in the GWTP.

Signature: _	Leigh Peters	Date:	August 11, 2003	
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# Weekly Oversight Summary Report No. 122 ACS Superfund Site WA57, 46526.238

**Reporting Period:** Week of June 30, 2003. **BVSPC O/S Dates:** July 3, 2003 (Ms. Peters).

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	3	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Austgen	2	Electrical Contractor
Ryan Construction	1	General Contractor
Simalabs	1	GWTP Sampling Contractor

#### **Construction Activities**

# Major Activities:

- Montgomery Watson Harza and Austgen completed testing and debugging the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system.
- Ryan Construction began loading excess concrete from the site into a rolloff box for disposal.
- Montgomery Watson Harza performed routine maintenance activities for the groundwater treatment plant.
- Simalabs collected routine water samples from the groundwater treatment plant.
- Montgomery Watson Harza held the weekly construction coordination meeting on July 3, 2003.

#### **Activities Performed:**

Montgomery Watson Harza (MWH) and Austgen continued system startup and testing of the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) in-situ soil vapor extraction (ISVE) system. MWH reported that it started the blower and simulated alarm conditions between the ONCA SBPA ISVE system and Thermal Oxidizer Unit 2. MWH tested the system by sending fresh air through the system. MWH reported that it sent process vapors briefly to Thermal Oxidizer Unit 2 to monitor the response of the unit. MWH reported that the system programming was complete and that it would be able to operate the system next week.

Ryan Construction began consolidating excess concrete stockpiled at the groundwater treatment plant (GWTP) for disposal offsite. MWH reported that the concrete was generated during the construction of the containment and sump for the thermal oxidizers and previous site activities.

MWH performed routine maintenance activities in the GWTP. MWH replaced the a flowmeter in the GWTP and cleaned pumps. MWH reported that the GWTP was operating at 20 gpm. MWH also reported that it has not been able to pump from the ONCA SBPA ISVE system dual phase extraction wells because it is waiting for Austgen to program the solenoid valve.

MWH held the weekly construction coordination meeting on July 3, 2003. MWH reported that it has prepared a health and safety addendum to include the procedures for measuring water levels at the ISVE system wells. MWH reported that it will measure the water levels in the ISVE wells in the upcoming week and will perform air monitoring during the measuring activities. MWH also reported that it will distribute its plan for mitigating the erosion damage on the Off-Site Containment Area engineered cover. MWH reported that it will distribute these documents to the Agency for review next week.

## **Topics of Concern:**

None to report.

## **Concern Resolution:**

None to report.

## **Upcoming Activities:**

- MWH to begin operating the ONCA SBPA ISVE system.
- MWH to perform maintenance activities to address erosional damage to the OFCA engineered cover.
- MWH to measure the ISVE well water levels and perform air monitoring during water level measurements.

Signature:	Leigh Peters	Date:July 8, 2003	
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# WEEKLY CONSTRUCTION MEETING MINUTES FOR JULY 3, 2003 MEETING AMERICAN CHEMICAL SERVICE, NPL SITE GRIFFITH, INDIANA

MEETING DATE: Thursday, July 3, 2003

**MEETING TIME: 10:00 AM** 

MEETING LOCATION: ACS Site - Site Trailer

**ATTENDEES:** Tom Tinics – MWH

Todd Lewis – MWH (via telephone) Rob Adams – MWH (via telephone)

Leigh Peters - BVSPC

Peter Vagt - MWH (via telephone)

Lee Orosz - MWH

Mark Travers – Environ (via telephone)

Jon Pohl – MWH (via telephone)
Chris Daly – MWH (via telephone)

#### **TOPICS:**

## Health and Safety Summary

No health and safety incidents have occurred at the Site since the last meeting on June 26, 2003. Activities at the site during the past week included the continued operation of the groundwater treatment plant (GWTP) and Off-Site Area In-situ Soil Vapor Extraction (ISVE) system, maintenance activities in and around the GWTP, and connection of control and electrical wiring in the Still Bottoms Pond Area (SBPA) blower shed.

Mike Grasso, a MWH Health and Safety Officer, conducted an unannounced health and safety audit of the Site on June 24th. Three items that required action were identified during the inspection. The first item is the need for electrical identification signage in the Off-Site blower shed building designating the electrical room. This sign has been ordered. Second, Mr. Grasso pointed out that we are keeping the Material Safety Data Sheets (MSDS) for chemicals that are no longer used in the GWTP. He recommended that the MSDS records maintained at the GWTP should be updated regularly by removing sheets for chemicals no longer used on the site. The third item was regarding the incident involving Rudy Stein. Mr. Grasso determined that because Mr. Stein was not instructed to take time off by a doctor, the incident does not count against the days without work lost. Mr. Stein took time off voluntarily. Therefore, the days without work lost is at 2,220 days.

## Groundwater Treatment Plant (GWTP) Status

The GWTP operated during the last week at 20 gallons per minute (gpm). Influent water to the GWTP was collected from the Off-Site Barrier Wall Extraction System (BWES), the On-Site BWES extraction trenches, dual phase extraction wells in the SBPA, and the Perimeter Groundwater Collection System (PGCS). The system was down for a few hours on June 30<sup>th</sup> and July 1<sup>st</sup> for routine maintenance. The work included maintenance on the T-102 pumps, cleaning several pipes, cleaning flow switches, and general maintenance on the sand filter.

Ryan Construction had one person onsite on July 3<sup>rd</sup> loading pieces of miscellaneous concrete to be taken to a recycler for disposal. The pieces are the extra concrete slabs from various pours from the past five years. Also included is the section of concrete slab that was removed from the south end of the GWTP building to create a secondary containment area. MWH is currently identifying a recycler for disposal and will get PRP approval prior to sending the concrete offsite.

MWH is currently investigating water-softening options to treat the make-up water for the three scrubber units. The details of the selected option will be finalized in the next few weeks.

## Off-Site Area ISVE System

The Thermal Oxidizer/Scrubber Unit 2 (Therm Ox 2), manufactured by Global, is online and treating vapors from the Off-Site ISVE system. The unit was down for brief periods to check the control logic for the unit.

#### SBPA ISVE System

Initial startup of the SBPA blower system is being currently being performed. Fresh air has been run through the system and vapors were sent through the system for a short duration on July 2<sup>nd</sup>. Austgen is onsite to debug the control logic. Trial runs of the SBPA ISVE system with vapor will commence once the control logic is debugged.

## Groundwater Monitoring Well Measurements

Measurement of the ISVE wells in the Off-Site area will be performed on July 10<sup>th</sup> or July 14<sup>th</sup>. Angelina Symicck, a MWH Health and Safety Professional, will be onsite when the water levels are collected to observe the procedure and to perform safety monitoring during these activities. Health and safety procedures for groundwater monitoring associated with the ISVE systems have been completed and will be submitted to the Agencies on July 3<sup>rd</sup>.

## Off-Site Cover

The memorandum detailing the planned correction actions for the erosion damaged areas on the Off-Site cover will be submitted to the Agencies for review on July 3<sup>rd</sup>.

Looking Ahead

COOKING TINEAU	
Weck of July 7, 2003	<ul> <li>GWTP/BWES/PGCS operation</li> <li>Off-Site ISVE operation</li> <li>Initial startup of the SBPA ISVE system.</li> </ul>
Week of July 14, 2003	<ul> <li>GWTP/BWES/PGCS operation</li> <li>Off-Site ISVE operation</li> <li>SBPA ISVE operation</li> <li>Off-Site ISVE well monitoring</li> </ul>
Health and Safety Items to Monitor	<ul> <li>Startup of SBPA ISVE system including monitoring of the system piping for leaks</li> <li>Completion of electrical work for the SBPA blower shed</li> <li>Off-Site ISVE well monitoring</li> </ul>

Next Weekly Construction Meeting - Thursday, July 10, 2003, 10 a.m.

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# Weekly Oversight Summary Report No. 123 ACS Superfund Site WA57, 46526.238

Reporting Period: Week of July 7, 2003.

BVSPC O/S Dates: July 7 and 10, 2003 (Ms. Peters).

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	4	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Austgen	1	General Contractor
Ryan Construction	1	General Contractor

#### **Construction Activities**

## **Major Activities:**

- Montgomery Watson Harza began pulling vapors from the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system, processing the vapor in Thermal Oxidizer Unit 2 until the unit shut down.
- Ryan Construction evaluated mitigative measures to prevent flooding of the American Chemical Service employee break room building.
- Montgomery Watson Harza corrected an electrical problem with the catalytic oxidizer unit and resumed operating the groundwater treatment plant.
- Austgen performed miscellaneous maintenance tasks at the site and in the groundwater treatment plant.
- Montgomery Watson Harza held the weekly construction coordination meeting on July 10, 2003.

#### **Activities Performed:**

Montgomery Watson Harza (MWH) operated the Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) system, pulling vapors from eight wells and processing the vapors in Thermal Oxidizer Unit 2. MWH reported that it also began operating the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) ISVE system, pulling vapors from 15 wells and processing the vapors in Thermal Oxidizer Unit 2 for approximately one hour. MWH reported that the systems operated until July 8, 2003, when Thermal Oxidizer Unit 2 exceeded the high temperature limit in the scrubber. MWH disassembled the primary quench bars and removed the flowmeter. MWH removed the precipitated solids from the nozzles and flowmeter and brought Thermal Oxidizer Unit 2 up to temperature. MWH proceeded to send ONCA SBPA ISVE system process vapors to Thermal Oxidizer Unit 2; however, MWH encountered

Page 1

programming errors in the unit and ceased operation. MWH proceeded to bring Thermal Oxidizer Unit 1 up to temperature and began processing vapors from the OFCA ISVE system on Saturday, July 12.

American Chemical Service, Inc. (ACS) notified MWH that the ACS employee break room building was flooding after the heavy rains that occurred during the week. MWH reported that Ryan Construction submitted a proposal to install curbing to divert the runoff away from ACS's building. MWH reported that it is evaluating the plan and will implement a mitigative measure shortly.

The fencing surrounding the ONCA SBPA ISVE system well field was blown down during the heavy storms that occurred during the week. MWH reported that it will keep the fence down until it is able to better secure the fencing.

MWH reported that it operated the groundwater treatment plant (GWTP) at 20 gpm until July 9, 2003, when the GWTP shut down because of an electrical problem associated with the catalytic oxidizer sump. MWH repaired the electrical problem and resumed operating the GWTP on July 10, 2003.

MWH held the weekly construction coordination meeting on July 10, 2003. MWH reported that it will be gauging the water levels in the ISVE areas on July 14, 2003, and that it will perform personal air monitoring during gauging activities.

## **Topics of Concern:**

None to report.

#### Concern Resolution:

None to report.

## **Upcoming Activities:**

- MWH to begin operating the ONCA SBPA ISVE system.
- MWH to perform maintenance activities to address erosional damage to the OFCA engineered cover.
- MWH to measure the ISVE well water levels and perform air monitoring during water level measurements.
- Ryan Construction to install curbing on the ONCA SBPA cover near the ACS break room building to prevent future flooding.

Signature:	Leigh Peters	Date: <u>July 18, 2003</u>	
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# WEEKLY CONSTRUCTION MEETING MINUTES FOR JULY 10, 2003 MEETING AMERICAN CHEMICAL SERVICE, NPL SITE GRIFFITH, INDIANA

MEETING DATE: Thursday, July 10, 2003

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site - Site Trailer

**ATTENDEES:** Tom Tinics – MWH

Kevin Adler - U.S. EPA (via telephone)

Rob Adams – MWH Leigh Peters – BVSPC Matt Mesarch – MWH Lee Orosz – MWH

Jon Pohl – MWH (via telephone) Chris Daly – MWH (via telephone)

#### **TOPICS:**

#### Health and Safety Summary

No health and safety incidents have occurred at the Site since the last meeting on July 3, 2003. Activities at the site during the past week included the continued operation of the groundwater treatment plant (GWTP) and Off-Site Area In-situ Soil Vapor Extraction (ISVE) system, maintenance activities in and around the GWTP, and programming of the Still Bottoms Pond Area (SBPA) ISVE system.

## Groundwater Treatment Plant (GWTP) Status

The GWTP operated during the last week at 20 gallons per minute (gpm) until the afternoon of July 9<sup>th</sup>. An electrical problem in the catalytic oxidizer/scrubber unit caused the GWTP to shut down. MWH is correcting the problem and anticipates having the system running again on July 10<sup>th</sup>.

Influent water to the GWTP was collected from the Off-Site Barrier Wall Extraction System (BWES), the On-Site BWES extraction trenches, dual phase extraction wells in the SBPA, and the Perimeter Groundwater Collection System (PGCS).

Austgen Mechanical was onsite performing routine maintenance around the GWTP and the Off-Site Area.

# Off-Site Area/SBPA ISVE Systems

Thermal Oxidizer/Scrubber Unit 2 (Therm Ox 2), manufactured by Global, was treating vapors from both ISVE systems and shutdown on July 8th after the unit exceeded it's

Construction Meeting Minutes

July 15, 2003

ACS NPL Site

temperature range. Therm Ox 2 will be brought back online on July 10th and treat vapors from both ISVE systems. The vapors from the SBPA system will be diluted with fresh air in order to avoid exceeding the Therm Ox 2 temperature range again. The Off-Site ISVE system is pulling vapors from eight wells. The SBPA ISVE system is currently pulling vapor from fifteen wells.

Groundwater Monitoring Well Measurements

Measurement of the ISVE wells in the Off-Site area will be performed on July 14th. Angelina Symicek, an MWH Health and Safety Professional, will be onsite when the water levels are collected to observe the procedure and to perform safety monitoring during these activities. Health and safety procedures for groundwater monitoring associated with the ISVE systems have been completed and were submitted to the Agencies on July 3rd.

## SBPA Cover

It has been brought to MWH's attention that stormwater runoff from the SBPA cover area is running into the ACS facility's break room building. Ryan Construction is scheduled to inspect the area and give a proposal for correcting this issue until the final cover system is completed.

I ooking Ahead

Looking Ahead	
Week of July 14, 2003	<ul> <li>GWTP/BWES/PGCS operation</li> <li>Off-Site ISVE operation</li> <li>SBPA ISVE operation</li> <li>ISVE well water level gauging</li> </ul>
Week of July 21, 2003	<ul> <li>GWTP/BWES/PGCS operation</li> <li>Off-Site ISVE operation</li> <li>SBPA ISVE operation</li> </ul>
Health and Safety Items to Monitor	Items include:  Startup of SBPA ISVE system including monitoring of the system piping for leaks  Off-Site ISVE well monitoring

#### Project Meeting Schedule

The frequency of the On-Site Construction Meeting is being changed from weekly, to biweekly for the next month. There will not be an On-Site Construction Meeting on July 17th. The next meeting will be on July 24th.

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Construction Meeting Minutes

<u>July 15, 2003</u>

ACS NPL Site

# Weekly Oversight Summary Report No. 124 ACS Superfund Site WA57, 46526.238

Reporting Period: Week of July 14, 2003. BVSPC O/S Dates: July 14, 2003 (Ms. Peters).

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	5	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Austgen	2	Electrical Contractor
Ryan Construction	1	General Contractor

#### **Construction Activities**

## **Major Activities:**

- Montgomery Watson Harza gauged the water levels in the in-situ soil vapor extraction system wells and performed personal air monitoring.
- Austgen replaced the nozzles in Thermal Oxidizer Unit 1.
- Ryan Construction replaced piping in Thermal Oxidizer Unit 1.
- Austgen completed programming the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system.
- Montgomery Watson Harza did not hold the weekly construction coordination meeting because of limited construction activity.

## **Activities Performed:**

Montgomery Watson Harza (MWH) gauged the water levels in the Off-Site Containment Area (OFCA) and On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) in-situ soil vapor extraction (ISVE) wells. MWH followed its health and safety protocol for ISVE water level gauging as described in its letter dated July 3, 2003. MWH donned Level C respiratory protection and opened the ISVE wells, monitoring the breathing zone with a photoionization detector (PID) and flame ionization detector (FID). During water level gauging activities, MWH also conducted personal air monitoring. MWH performed air monitoring, measuring the concentration of benzene and acetone at the well with Drager tubes. One MWH representative wore an air sampling pump with charcoal tubes and badges. MWH reported that the badges would be analyzed for vinyl chloride and methylene chloride. MWH also reported that the charcoal tubes would be analyzed for 1,1,2,2-tetrachloroethane, methyl ethyl ketone, benzene, toluene, xylene, ethylbenzene, 1,2-dichloroethane, methyl isobutyl ketone, methyl chloroform, acetone, and perchloroethylene.

MWH reported that the OFCA ISVE system and Thermal Oxidizer Unit 1 shut down on July 13, 2003. When MWH arrived onsite on July 14, 2003, it observed that a piece of piping for the scrubber had been damaged because of high pressure within the piping. Ryan Construction replaced the damaged pipe and Austgen replaced the stainless steel nozzles in the quench bars with Teflon nozzles. MWH brought Thermal Oxidizer Unit 1 back online and resumed operating the OFCA ISVE system.

Austgen debugged the programming for the ONCA SBPA ISVE system and MWH resumed operating the system, processing vapors in Thermal Oxidizer Unit 2 on July 15, 2003. MWH operated the system shortly until Thermal Oxidizer Unit 2 shut down because of a high temperature alarm in the scrubber unit. MWH proceeded to clean out the quench nozzles and returned the system up to temperature. MWH resumed operating the ONCA SBPA ISVE system. MWH reported that it will begin monitoring the ONCA SBPA ISVE system in accordance with the *Performance Standard Verification Plan* once consistent operation of the system is obtained. MWH reported that Austgen would return to the site next week to complete some additional wiring and electrical work in the ONCA and OFCA blower sheds.

MWH operated the groundwater treatment plant (GWTP) at 40 gpm. MWH reported that the GWTP had shut down early in the week because of the adverse weather conditions. When MWH resumed operating the plant, it operated it at a higher flow rate to make up for the downtime earlier in the week. MWH reported that it will resume operating the plant at 20 gpm.

MWH did not hold the weekly construction coordination meeting and will begin holding construction coordination meetings on a biweekly schedule because of the limited construction activity at the site.

## **Topics of Concern:**

None to report.

#### **Concern Resolution:**

None to report.

## **Upcoming Activities:**

- MWH to begin operating the ONCA SBPA ISVE system consistently.
- MWH to perform maintenance activities to address erosional damage to the OFCA engineered cover.
- Ryan Construction to install curbing on the ONCA SBPA cover near the ACS break room building to prevent future flooding.
- Austgen to complete electrical wiring in the ONCA and OFCA ISVE system blower sheds.

Signature:	Leigh Peters	Date: <u>July 21, 2003</u>
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# Weekly Oversight Summary Report No. 125 ACS Superfund Site WA57, 46526.238

Reporting Period: Week of July 21, 2003. BVSPC O/S Dates: July 24, 2003 (Ms. Peters).

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	2	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Austgen	1	General Contractor
Ryan Construction	5	General Contractor
Independent Environmental Services	2	ONCA SBPA ISVE System Yard Piping Installation Contractor

#### **Construction Activities**

#### **Major Activities:**

- Ryan Construction began installing a concrete retaining wall around the American Chemical Services employee break room building in order to divert stormwater runoff around the building.
- Independent Environmental Services and Montgomery Watson Harza gauge the water levels and inspect the air line connections to the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system dual phase extraction wells.
- Austgen performed general maintenance in the groundwater treatment plant and completed
  the electrical wiring in the On-Site Containment Area Still Bottoms Pond Area and OffSite Containment Area in-situ soil vapor extraction system blower sheds.
- Montgomery Watson Harza held the biweekly construction coordination meeting on July 24, 2003.

## **Activities Performed:**

Ryan Construction began constructing a concrete retaining wall surrounding the American Chemical Services (ACS) employee break room building. Ryan Construction installed the wall so that the stormwater from the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) cover would be diverted around the building. Ryan Construction completed the bottom of the curbing and installed the forms for the walls. Ryan Construction constructed the wall to surround the eastern, western, and southern walls of the building, allowing an approximately 3-feet-wide walkway between the building and the curb. Montgomery Watson Harza (MWH) reported that the concrete for the perimeter wall would be poured

next week. MWH also reported that Ryan Construction removed a portion of the ONCA SBPA clay cover to install the walkway. Ryan Construction placed the removed clay in two locations, one near a low spot at MW-10C, and at a second location east of the drum storage pad. MWH reported that the gravel removed during the construction would be used to backfill around the retaining wall. MWH also reported that Ryan Construction damaged part of the south wall of the ACS employee break room building and that it would be repaired next week.

Black & Veatch Special Projects Corporation (BVSPC) observed several erosion gulleys in the ONCA SBPA interim gravel cover. BVSPC spoke with MWH about these areas of erosion, and MWH reported that it will repair the erosion and will continue to monitor the cover.

MWH and Independent Environmental Services (IES) measured the water levels and depth of product in the ONCA SBPA in-situ soil vapor extraction (ISVE) system dual phase extraction (DPE) wells on July 23, 2003. MWH reported that it observed oil in several of the DPE wells located on the eastern portion of the ONCA SBPA. MWH also reported that it and IES checked the air supply connections to the pneumatic pumps located in the DPE wells. MWH reported that half-face respirators were worn during the evaluation of the ONCA SBPA ISVE system DPE wells.

MWH reported that the ONCA SBPA and Off-Site Containment Area (OFCA) ISVE systems were operating intermittently over the past few weeks. Austgen completed the electrical wiring in the ONCA SBPA and OFCA ISVE system blower sheds. MWH reported that continued maintenance activities are required on Thermal Oxidizer Unit 2 to clean the clogged nozzles and piping. MWH reported that it continues to evaluate water softening systems for the scrubber water. MWH also reported that the pH probe in Thermal Oxidizer Unit 2 was damaged and that it was replaced on July 24, 2003. MWH also reported that it has collected four samples of the influent and effluent vapor streams to Thermal Oxidizer Unit 2 since startup.

MWH reported that the groundwater treatment plant (GWTP) operated at 20 gpm, except when the plant was down for 3 hours on July 23, 2003, for maintenance on the catalytic oxidizer unit. MWH also reported that it was extracting water from the western ONCA SBPA ISVE system DPE wells. MWH reported that it will evaluate the east ONCA SBPA ISVE system DPE wells because of the presence of product in these wells. Austgen assisted MWH with routine maintenance activities in the GWTP. MWH reported that it will clean out tank T-102 and perform additional maintenance activities on the GWTP during the upcoming weeks.

Ryan Construction removed the rolloffs containing the excess concrete generated at the site for disposal at a recycler on July 25, 2003.

MWH held the biweekly construction coordination meeting on July 24, 2003.

## **Topics of Concern:**

None to report.

## **Concern Resolution:**

• None to report.

## **Upcoming Activities:**

- MWH to begin operating the ONCA SBPA ISVE system consistently.
- MWH to perform maintenance activities to address erosional damage to the OFCA engineered cover.
- Ryan Construction to complete installing the retaining wall on the ONCA SBPA cover near the ACS employee break room building to prevent future flooding.
- MWH to perform maintenance activities in the GWTP.

Signature:	Leigh Peters	Date:	August 11, 2003
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# WEEKLY CONSTRUCTION MEETING MINUTES FOR JULY 24, 2003 MEETING AMERICAN CHEMICAL SERVICE, NPL SITE GRIFFITH, INDIANA

MEETING DATE: Thursday, July 24, 2003

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site - Site Trailer

ATTENDEES:

Pete Vagt - MWH (via telephone)

Kevin Adler - U.S. EPA (via telephone)

Rob Adams – MWH
Leigh Peters – BVSPC
Lee Orosz – MWH

Todd Lewis - MWH (via telephone)

Jon Pohl - MWH (via telephone)

Chris Daly - MWH (via telephone)

Chad Smith - MWH (via telephone)

#### TOPICS:

Health and Safety Summary

No health and safety incidents have occurred at the Site since the last meeting on July 10, 2003. Activities at the site during the past two weeks included the continued operation of the groundwater treatment plant (GWTP) and Off-Site Area In-situ Soil Vapor Extraction (ISVE) system, maintenance activities in and around the GWTP, inspection of the Still Bottoms Pond Area (SBPA) wells, construction of a stormwater diversion berm around the ACS breakroom building, and ISVE and dual phase extraction (DPE) well gauging.

On July 14th, MWH personnel performed water level gauging of the SBPA and Off-Site Area ISVE and DPE wells. The personnel wore full-face respirators with organic vapor filters during the well gauging activities and followed the task-specific Health and Safety procedures developed in June 2003. Angelina Symicek, an MWH Health and Safety Professional, was onsite during the water gauging activities to observe the procedure and to perform safety monitoring. Ms. Symicek performed real-time air monitoring in the breathing zone using a flame ionization detector/photo ionization detector (FID/PID). Additional potential chemical exposure information was collected by colormetric tubes and personal chemical monitors. Instantaneous results from the monitoring indicated that the revised Health and Safety procedures are appropriate. The personal chemical monitors were sent to a laboratory for analysis. A summary of the monitoring results will submitted when the final results are received

Independent Environmental Services (IES) was on-site July 23<sup>rd</sup> to inspect the SBPA ISVE and DPE wells. The IES crew wore respirators during their inspection activities.

While constructing a concrete berm around the ACS breakroom building, a member of the Ryan Construction crew accidentally bumped the building with a skid loader. No one was injured and only minor damage was done to the building. Tom Fromman of ACS has already been informed and inspected the damage.

## Groundwater Treatment Plant (GWTP) Status

The GWTP operated during the last two weeks at approximately 20 gallons per minute (gpm). The GWTP was shut down for three to four hours on July 23<sup>rd</sup> for minor maintenance on the catalytic oxidizer unit.

MWH has completed programming the controls for the SBPA ISVE system. Therefore, influent water is again being collected from SBPA DPE wells on the west side of the cover. Additional influent water to the GWTP was collected from the Off-Site Barrier Wall Extraction System (BWES), the On-Site BWES extraction trenches, and the Perimeter Groundwater Collection System (PGCS).

Two roll-off boxes of concrete debris will be hauled to EL Construction in Hobart, IN within the next few weeks for disposal. The concrete debris is from extra concrete slabs from various pours from the past five years and sections of concrete slab that was removed from the south end of the GWTP building to create a secondary containment area.

One roll-off box of filter cake will be hauled to an Onyx incineration facility for disposal. The concentration of the filtration cake exceeds the limits allowable for landfill disposal; therefore, it will be sent off as a hazardous waste.

## Off-Site Area/SBPA ISVE Systems

Thermal Oxidizer/Scrubber Unit 2 (Therm Ox 2) operated during the week of July 14<sup>th</sup> while Thermal Oxidizer/Scrubber Unit 1 (Therm Ox 1) operated during the week of July 21<sup>st</sup>. It has been observed that both units begin to overheat due to fouling of the scrubber nozzles and screens after approximately two days of continuous operation. MWH is currently planning to install a treatment component that would improve the water quality by reducing the hardness of the scrubber make-up water and eliminate the overheating of the units.

Austgen Electric and MWH have completed programming the controls for the SBPA and Off-Site ISVE systems and demonstrated that Therm Ox 2 is capable for treating vapors from both ISVE systems. MWH has collected four weeks of data from Therm Ox 2 but has been unable to collect data for the last two weeks.

#### SRPA Cover

Ryan Construction was onsite July 22<sup>nd</sup> and July 24<sup>th</sup> to construct a concrete berm around the ACS breakroom building to divert stormwater around the building and eliminate the

Construction Meeting Minutes

July 29, 2003

ACS NPL Site

potential for flooding during heavy rain events. Construction of the berm will be completed July 28th.

Erosion of the gravel in the SBPA cover area has been observed. Ryan repaired some of the erosion trails while they were onsite to complete the stormwater berm. Any erosion noted in the future will be fixed prior to placement of the asphalt layer.

## Off-Site Area Cover

MWH is in the process of selecting a contractor and purchasing the material to repair the erosion areas in the Off-Site Area cover. The work will take place within the next few weeks.

Looking Ahead

LOUKING A DEBU	
Week of July 28, 2003	<ul> <li>GWTP/BWES/PGCS operation</li> <li>Off-Site ISVE operation</li> <li>SBPA ISVE operation</li> <li>Cleaning of T-102</li> </ul>
Week of August 4, 2003	<ul> <li>GWTP/BWES/PGCS operation</li> <li>Off-Site ISVE operation</li> <li>SBPA ISVE operation</li> <li>Dispose of two roll-off boxes of concrete</li> <li>Dispose of one roll-off box of filter cake</li> </ul>
Health and Safety Items to Monitor	Items include:  Confined space entry to clean T-102  Off-Site ISVE well monitoring

Next Weekly Construction Meeting - Thursday, August 7, 2003, 10 a.m.

JDP/RAA/PJV

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# Weekly Oversight Summary Report No. 126 ACS Superfund Site WA57, 46526.238

Reporting Period: Week of July 28, 2003.

**BVSPC O/S Dates:** Cancelled because of limited construction activities.

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	2	Respondent's General Contractor
Ryan Construction	2	General Contractor

#### **Construction Activities**

#### **Major Activities:**

 Ryan Construction completed the concrete retaining wall around the American Chemical Services employee break building.

## **Activities Performed:**

Ryan Construction completed constructing the concrete retaining wall surrounding the American Chemical Services (ACS) employee break building. Ryan Construction poured the concrete for the retaining wall on Monday, July 28, 2003. Montgomery Watson Harza (MWH) reported that Ryan Construction will repair the southern portion of the building that it damaged during construction activities next week.

MWH reported that the groundwater treatment plant (GWTP) operated at 20 gpm. MWH reported that Environmental Contractors of Illinois, the Off-Site Containment Area (OFCA) engineered cover contractor, would return to the site in August to add topsoil and reseed several thin areas of the engineered cover. MWH also reported that it is evaluating a proposal submitted by Midwest Environmental, Inc. (MEI) to repair the erosion damage to the OFCA engineered cover.

#### **Topics of Concern:**

None to report.

## **Concern Resolution:**

None to report.

#### **Upcoming Activities:**

- MWH to begin operating the ONCA SBPA ISVE system consistently.
- Ryan Construction to repair the ACS employee break building.
- ECI to add topsoil and reseed the OFCA engineered cover.
- MEI to perform maintenance activities to address erosional damage to the OFCA engineered cover.

Signature:	Leigh Peters	Date:	August 11, 2003
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MWH to perform maintenance activities in the GWTP.

HARITE 6/26/03 1045-1050 Spoke u/ L. Campbul in site activities Roll 44 Photo 6 facing NW of connected As and OPE Air supply lines 1103 Roll 44 Photo 7 Facing W of Austgar wiring shed building # 2. 1105 Roll 44 Photo 8 tacing wot connected 8 4 piping 1107 Roll 44 Photo 9 Facing SW of blower ettluant and steel are supply line from GuTP, leaving Stack to connect to all supply lines In bulling #2. Roll 44 Photo 10 tours E of W wall of building #1- his intakes on right ( MATE), exhaust from blonce un lett. 1125 Left Site for day

0730 Amire Misite, 75° c/dat, sunny, SSE wind Personnel Present. 100 01052 MWH Pica Flores Hustaan Miles Carson X Chris Daly \* Leigh Peters BUSAC Spoke with C. Dely. He reported ACS Glosed today - mutt trying to get access. He also reacted that they are working on getting programming bugs out at the BUCH SBRK themox / 15 VE & ysten. C. Duly reported MOSTES PUNITY Fresh air but he dix wall held breakly yesterday to test through reaction. 0800 ACS opened gates. I gross veported that the curp operang at 29 spy - performed maintenage on outp this wak. C. Daly reported that thespea asso working on programma for GWAP regar stream to be revoluted from the catox to they max 2. C. Daly hopes to get orch 15 VE system speraring today, but reported that he did not intend to operate :4 drew the weekend. Rd1 45 Photo 1 facing 5 of 55 vibration July copita

(20)	7/3/03 Hg 12 Dia
	Coupling Installed on effluent side of
0806	POIL 45 Photo 2 fiding W of completed  piping Domiccoms in blowershed bdg #1  to GWTP
	Austgen programming Hormoters and De equipment in blower shear bldg # 1
0900	a Daly reported taps for Pitot types  Still needed.  R. Flores retorned to site to continue
0915	System programming.  Returned to trailer & worked on reports.
-	Simples for oute. MWH discussing
	central OPF wells so that it runs to
-	back to GWTP. This would climinate
- 0940	Couly reported that MNH shut down
	Thermox 2 that actuates between proces-
	2. Flores currently working on programming for the value
	Ach EPate

De Peter 7/3/03 Attenders - X on PHEVIOUS Plus Tau Tinies MWH naphane: Peter Vagt MNH ROB AKIMS MWH Todd Lewis MWH Jor Pohl NWH Marke Travers environ 1/15: no isones Austgen worked - 8 + RyTh removing exerss concrete. Most received report from tits audit, need to post signing on OFCA 15 VE execting of from rooms also upaste MSDSS. Also, Brdy "Volunteered" to the aft work then not a loss time incracnt SWIP 20 gpm, pattoming contine maintenance activities. What pulling from OPE wells stack programming needed too solesied value that supplies are DIVER ISVE: proceeding with oneck att and debugging - Sent some vapors yesterday Hoppy to start up next weak OFCA ISVE: typically on live + being processed by Thumox 2 MWH eratuating water softening of stoubber wholed to remove minerals

(121)

Bagh & peter

Ash Epit 7/3/03 looking to install something over pext few weres General Satework: Ryan removing concrete; Simalabs collecting voither samples, Refinements MNH to subjust revised Hts plan for water lovels: OFCA cap woston mal Atenance Look Aread: Austger to firish work -ONCA ISVE operation, mut to measure natur livels on money + H+S person to perform monitoring on winday Look theat HIS - water levels + HES monitority, processing ONCA ISVE WARTS+ to notify ACS. 1030 My conclude; next marry July 10 @1000 R. Floris reported that he fixed the programming for Thermax 2 valve - to proceed by tuning on blower. Observed MWH + Austgan working on 1160 programming for ONCA ISVE. MUH operating OFCA ISVE thru Thermox2 1120 and opening blower for ONCA 15 re. R. Flores programming pressure switch. 1140 Spoke w/ C. Daly on OFCA ISVE. He reported that they wer with internal Sy h S DUE

Sof ERth

7/3/03

[23]

experts to draw conclusions on corca system MWH to subject you bly of findings and recommendations. 1145 R. Flores reported that he needed add thouse equipment from shop- to return after lungh. continued to work on reports 125 114 SITE AN May

7/7/03 Arrive onsite, Sunny, Class, 80°F Personnel Present. Lec 01052 MWH TOM TINICS MNH leigh Puters Buspe Spoke m/T, TINKS + 1.00852 - plant not operating since Thursday avoning programming down in system - mort mable. to get control program Novery - OFCA 151E also down. T. Thics reported His air sampling to be onsire today for wells as far as he knows. 7. TINICS could a Daly, hels unsure of what nappened to GWTP pragramme -Also, G. Daby reported that he delet by en any air monitoring going mat site today. 0800 T. From an come to report that the ACS breakroom has been fooded. since cap finished. MWH reported that it will look into mitigating mater + drainge. Went to GN CAR to look At flooding in 0810 ACS break builded 0811 Roll 45 Photo 3 tacing to of flooding in room Agg Epia

John FRIK 0813 Roll 45 Pott & Photo 4 facing 5 of Houding water in Through Sdoor of ACS blag. 0875 Roll 45 Photo S of exterior cap hear MCS break building where water flooding Into building Erosion trails ingravel 0816 POVI 45 Photo 6 Facing Wot dipth of trall a Zinches from erosin in gravel near SW corner of ACS break room. 0820 Rallys Photo 7 facing 5W of crosing cliny in NE come of ONCA FBPA near MS loading 0822 Poli 45 Photo & Facing NE or crosion THIAIS AND CATCH GASIN ON NE COTHER OF ONCA SBIA briak room 7 dap ruts -> / CB 0825 Spoke with & compaction site admirtus. 0177 000827 Roll 45 Photo 9 foung 5 of evesion and exposed geotextile near eatch basin on SE portion of ONCA SBPA. 0535 Returned to ONTP MUXX reported OFCA blower was operating - tustgen to be insite today to look as problem. Must reported

SASPINO System went down in Sat morning. MUH to restart Dur unt to begin resperating the OFCA ISVE system Mistgen arrived onsite to look into communication 0850 problems with The GNTP. I told TIMICS About crossin in ONCA cap- he said he and L. Orosz grave around this morning and noted evosion problems. Heals a reported that hew crosin trails is OPCA south of the existing exosion. Astgen riset switch on vouter which reset control system, SCADA reworking 6910 MUHTIPOARDID WILL PROUSS OFCA ISVE vapors in From ax I and will begin ONCA ISVE IN Thormox 2 - programming campleted ust thursday MuH also reparted 15 VE water levels and air manitory to be consulted pither thurs or next unday. left site for day WAS PIC

7/10/03 Amire Gusite account, Tos, light SE wind Personnel Present: XLuc Orosz MWH Tim Kirkland Austran X Ten Tinics X Leigh Peters BUSPC 0740 Spoke with 4 arsz, he reported on TP was down yesterday at noon-level switch in catox broken - ordered replacement Austgen dains misceplaneous fasks on sile Spoker with T. Tiriks - he reported no thing on-line Global not over heated when anxing up to temp, greach no 2265 clogged and Howmeter stuck - Alled with acid to clean aut; will reassomble and Kestert Kais Morning and resume OFEAVSVE MWH reported excess androk to gate exasher. Ryan to malvate flooding and install carb to direct water from Modern ACS bldg 0806 RON 45 Photo 10 today 50 of area where concrete pieces removed and stored in rolloff was + of on TP 08/0 abserved Avstyen disging to instructor con for forecost for finding west of thumox 2 John E Pet

7/10/03 Aph SPites Poll 45 Phin // facing E of ONCA affer stopms, wine blow cown fince line Succosing on NW Borne AR NW corner 0825 Roll 45 Photo 12 Facing NE of Austgen placing concrete to secure tince get at 6NTP oxidizes units 0830 went to ONCA, uglked cop and observed erosion in same areas as monday. 0845 1 to 1d T. Tinics that hince down in ONCA, he reported they kept it down since it damaged ACS cars parked near blower shed. T. Tinics also reported ACS personnel not to park on ONCA cap yet Poll 45 Photo 13 facing SW of leaking fitting on thermax 1 semilber - Note recontigued location of pH/conduction probes Observed T. Timos replace normes into primary greach by Thermax 2. He reported all water from ONCA blower shed coming back to GWIP in one pipe. T. Tinice reportal 6w Trair stream programmed to go to Thermox 2. MNH tried running but Thermax 2 over temped - don't know it its the unit or associated with rotor stream go SPich

Joh E Pite MW H reported it operated ONCA ISVE briefly on tuesday pulling napors for about 1 hr until thermore 2 quer kurpest 0905 Rollys Motosly Facing Sof MWH installing Now meter and quench hozzies /piping. 6915 Mul # officing leaking thing on therm ox 1 MWH starting up Thermox 2 0925 Alarmon Thorniox 2 - schubber rectroulation pump fault Restarted unt T. Traics reported that once Thomas 2 online, mut to starte ONCAISUE - if operating properly, then MWH to resume OFCA BUE GWTP to stay processed through cotox for time being. Thermox to remain offling So Austren Can replace 55 normes with tetton normes 6955 Spoke with 1206 tames, he reported most looking into hand filtration for softening water for seribbers - need 5 gpm - & start with pilot wort - next few westes + from unit would take 12 weeks or so to make, would look into buying polot unit. Weikly construction Meets 48 Attures - x on previous plus: Rob Alams MWH Matt Muscarch MWH

Jy 19 Put

Son Epits 7/10/03 via phone: Kerin Adler Chris Daly must Joh Pohl MNH HTS: No problems, slaw week Austgen performing miscullareous tasks, Austycu Electric been onsite for programming. GWTP. intoperating-down yesterday at 12 - low sump wellin cats x - but not sump- dechical control must trouble shooting will restore at 20 gpm ISVE: OFCA 1546 op until late Turk when thurnox 2 over temped. Pect hed problem and bringing unit up to temp. Expect to start sending onco vapors, continually and to send open Thermox I offling for norme replacement. MAH operating ONCA ISVE wells SVE-43 Thru SVE-57 diluted w/ fres & Mr. Concrete : Ryun complete of to dispose of at rock crusher in Hobart. Look Macadi Monday - ISVE North levels must to conduct personal air monitoring during activity. Austgar Electric to do more pragramming. Zyan to assess once runiff problems. 1020 Mtg cm dud - next musty 7/24@1006 Soft Epiter

Joh & Pelus 7/10/03 Compbett on site activities 1110 went to ONCA to deserve crosion
1115 Roll 15 Photo 15 facing 5 of topsoil evaling into swale near EW12 1120 Roll 45 Photo 16 Facing E of exosion pear PILL 1122 Rall 45 Photo 19 facing N of standing water in ended are a where conduit for tiber 16 served Serval areas in north, cast-wast direct on swale that have bonding water Looks like areas where much tracks Ponding stin occurring between the 200 and EW ZOB, nour cices gate to RR Tracks MI of WE Swale has tilled w/ clay and needs to be cleaned out 1135 left site for day

0730 Amin Miste Sunny clear, 75°F, light CGST Wind- minimal Spoke with T. Tracs, he exported that They began operating Thermore 2 with GICA 15VE; but programming caused Thomax 2 to loose permissive; but blower still operated went brought Thermox I on the - forday + aparated OFCA on saturday, but system shot down Sunday thes blow out Austral to be out to day to be / p replace lines. Thomax / Gas processing OFUR ISVE Vapors. Thermax 2 werently offline T. Tinks reported water level measurements - GIR personal arminitorial to be performed today 6750 Roll 45 Photo to facing & of damage piping on Therpox / 6755 T. Thics reported onto operating - Catox repaired by end of day thursday 11/0/03 T. Kirkland oneite to look at Piping on Thermox 1. Must starting themox 2 to brug op to temp price places from Austyce to be assite later today to look at programming.

Jeff & Pater 0810 T. Tinics tyported To Kirkland to replace 55 nordes on Thermox 1. Ryan to vyplace ploing today. T. T. ales also reported that today's conditions (no wind, thermax / 1500 34 stem not operating). Angelina Symraile of MUM on site-preparing to personal ar homitory drong water levels. 0845 C. Smith and Restain of nWH on site to + 15 VE well muter levels Angelina monitoring air wife drager to bas, PID/PID, and badges tor VC, mothylene of Carde MAHI monitoring charcoal tubes for 1,1,2,2-+ctrachon ethane; methyl ethyl ketone; BTEX 112-DCA; methylisobutyl Kenne; neshylchloroform; acetine, Perchloroekylere 0910 Went to OFCA to observe. MWH messes befor levels and perform air monitoring. Hrs procedures - open well and monitor WITH PID MAHILS to fail zeg. Action levels are 15 ppm - Love 1 D. PID between 5 and 9.98 pm level C - PID >10 ppm ran leave and reasses 0715 Rall 45 Photo-19 Facing West man downing respirators and wearing budges and gamp (charcoal blans for ave mon tong. BB & Beter

Spf & Pran 7/14/03 Rall 45 Photo 20 toring Wat most monitoring At SVE- / with PID/PID. MWH suported that The PID Keeding was 0.5 ppm sustained in breathing zone C. Smith and Angeline down graded to Love D. Pall 45 Photo 22 trong w of Mw H change 0120 project from water land tope of SVE-1. MWH upger ded to bar / C when product ancountered 0947 Roll 45 Photo 22 Baing Wot MUXI gir monitoring at SVE 40 with Dragar tobe 1007 Angelina reported Drager to be detacted Scorenzat uppx 3-4 ppm from SVE- 40. Angelma began sumpting at SVE. 18 -18 Stein reported typically a " hotter " well Black product present on water land tape from SIE-18 must masung level M SVE 15. R. Story 1025 reported PID at / ppm. RStein reported that SVE-15 primary solvent - he suspects Concluded OFLA Measure ments - MUH taking break 1040 PLUSOMME 1 Priselt. Tom Tinics 47415 Peter

STATERIZ. 7/14/03 BUSPC Austaca Tim Kirk land MWH Anachina Symicek MWH and Smith MMH Terry Frisk Austgan Rich Flores 1045-1050 Spoke with a. Compact 1 right of since 1/25 went to ONCO to agrant man the perform water love measurements of anca 1545 wells 15 Roll 45 Photo 23 Fairy Wat must measury water land + Dougen kit mon toring at AS-1 Drager tobe for account = oppor 1225 mar measons the product of SVE 1305 MUH amolided ON OA SBOA 15VE Water level measurements 1350 Spoke W CD-13 - ON CA ISVE Shill medes program de bugging hope to have running 1405 front to OFKA to 06 serve existion proston MUH 14 7/2/03 Transmitted

List afect Left Efter 7/14/03 6750 Arrive msite; Sunny, Elear, 65% light swuised Arus if concern - crosion of SOI/ coming wer dament conduit from Personnel Present pole on cultur to blowershed @ 1/2 way XLEC Orosz Jerry Spurgeon between EN16CO and EN 15 something Ryen Paul Kuvarynohi is runnely of oft site - said pile in since 14/2 Roll 45 Photo 24 Lacing E of sand and Dave Honkel note transped under trace be. MARK MUMMACY Areas & a moorn 3 clay in Swale Rob Potter an NE portin of sile & poraing near Tim Kirkskua EN 200 5. MWI may want to extend \* Leigh Peters crossom blanker N of EN-12 - soil worked walked the comp - Appears Therman / office into swale @ crosin prevalent on and Thermax 2 antrol paner showing low pt Warm appears that datex to aperatoring NEST SIDE UT opp, MATI just south of EW13 cleaniz-0800 Crant to ONCH to absence due to installed in 1430. R. Plans & C. Oxly continue to work on 0804 Rall 45 Photo 25 France Sur curbing installed ONCA 15VE programmas 1450 left Site for day on East side of Ads blag. 0810 Spoke with 1 orosz. He reported Ryan removed grand and some clay from anound buckerson building - conduct goes opporer &- ind 4es below from of buck room + thish up to cage To be you to ca 1: 01052 repetted Rin del not remove any notice material except possibly at NE age of biding at permeter of cover

Apr & Peter 7/24/03 Ryan Installing to 11 cueb around personeter of valkungsurrunding blagsother it Will be approx winches taller than Anal great of as phalt cop. -out to slope to 10-Inch tall Lub ~ 8 Inches -- 3 fall out / retaining L. Orosz reported Ryan to Anish installing forms today and will poor on week + veryou forms tomoprous 6.0002 a/so regarded that he operated Thornat 2 m/EwTP + OFCA vayors this week; but pH probe toulty and stopping system yes knowny. Replacement probe to anive today - 40 ms 2 to vistant m/ of co + 6m AP vapers. ONCA ISVE 375tom &d hot operate this week. L. 01652 a/S & reported IES pusite Yesterday to help L. Opost inspect DPE wells: measure product if any and check the MIK Connections. L. Drose reported of found in trast to east wells - former SBPA 08/6 Roll 45 Photo 26 Fairy was Regar installing forms to - cribing of sike of building. To Eletto

LAS Peter aurbing was placed in a low spat men muioc MUSITACLESS FORD and trailer. Native from outs bacot kap area 15 billing spread on property Nerde, noor from pad, must general person sein from Francis on Grave 1 to replaced which ours prished towied. 0830 Roll 46 Photo 1 laving Sw of graded area where some bative material was temoved NOAACS Grank HOOM 08/5 Roll 46 Photo 2 Accep Not olay stockpite Tran ON CA cover near test 30 mw loc 0900 Koll 46 Photo 3 tacing N showing crising in graves on ONCH SBPA COVER. Phope 1. cated at catch bagger Logbook located in crosin trail where approx 2 toct of gootex n'he exposed. Exosim oh sorth side of coreu near RR Aracks 0905 POKYE PAGE Y facing St of crosing of owen SBPA Edeal -NA corner near catch besin Note exposed geo toxtile. 0925 Ryon uported concrete pour et 11:50 0940 Spoke with R Adams - Thermax mig 2 blow down using coty water must still arrive my watersoftening with man branes

7/24/03 Por Fre Weekly Construction Mitz Attenders \* on previous plus Rob Adams Via phone: Xevin Adlar EPA Peter Vagt MWH Todd Lowis MNH Joh Pohl MNH Chad smith MNH Chrisdaly MWH H+S: Mut amtroling Mosquitos. 7/14/03 sampling of 15VC naturals is tellface respirators to lowing now His addendum. Preliminary results indicate that procedures are protective. IES onstte yesterday inspect y DPE wells, pitters + cops and wore half toce respirators. Byan demaged Ac building dury activities but will repri-MNP : down yesterday for 3 has for Catox but other Wise venning at 20 gpm, pulling from West DPE wells. East wells have product - MWH to evaluate. 15VE. Tystemis operating most of post 2 weeks, but units down for manhtoning or clogged nottles + pipe &. Matt looks & into water soffeners, all SBPA ISVE Control. 15 mes solved. MUH Collected 4 snaples to date of thereox &

7/24/03 Byon Installing curbing to be complete toworm. Extra concrete to be recycled At TL CINSTNUM. Avetgen whoor efection of updates in owith and open blowershed. Look thead: 105 to deah 7-102 in expined Space. Ryon to perform piping in Gn TP to enable bypess of 1/02 OFCA Ensino. Mult proceeding w/ procurement OHCA Erosin: NWH to regrade + HIII in grand. filled in ension hear ACS lording dock. Kent Mtg Argust 10 10 7, 2013@ 1000 1030 Mity conclude - waken mites. 1 told L. Orose about the ether areas of ONCH SUPA where 519 tiff cant knoston present. 1115 Went to ONCH - from ing for concrete curb in places Contractors off to lunch concerte to bepound today.

1/35 Lett Site for day





Proj. #: 46526

Roll: 45 Photo #1 Date: 07-03-03 Time: 08:04

Photographer: Leigh Peters

Description: Photo facing south showing the stainless

steel vibration-proof coupling installed on the effluent of the ONCA SBPA ISVE system blower in blower shed building #1. Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 45 Photo #2
Date: 07-03-03 Time: 08:06

Photographer: Leigh Peters

Description: Photo facing west showing the completed

piping connections in the ONCA SBPA ISVE system blower shed building #1.





Proj. #: 46526

Roll: 45 Photo #3
Date: 07-07-03 Time: 08:11

Photographer: Leigh Peters

Description: Photo facing east showing flooding in the ACS employee break room building.

Photographer: Leigh Peters

Site:

Proj. #:

Roll: 45

Date: 07-07-03

Description: Photo facing south of the flooding in the

Photo #4

Time: 08:13

American Chemical Services, Inc.

46526

ACS employee break room building and the southern door where water is entering

from the ONCA SBPA.





Proj. #: 46526

Roll: 45 Photo #5
Date: 07-07-03 Time: 08:15

Photographer: Leigh Peters

Description: Photo facing west showing erosion in the

SBPA ISVE cover where the water is flowing off of the cap into the ACS

employee break room building.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 45 Photo #6
Date: 07-07-03 Time: 08:16

Photographer: Leigh Peters

Description: Photo facing west showing the depth of the

erosion trails in the ONCA SBPA cover near the ACS employee break room

building.





Proj. #: 46526

Roll: 45

Photo #7

Date: 07-07-03

Time: 08:20

Photographer: Leigh Peters

Description: Photo facing southwest showing an erosion

gully located in the northeast portion of the ONCA SBPA cover near the ACS

loading dock.

Site: American Chemical Services, Inc. 46526

Proj. #:

Roll: 45

Photo #8

Date: 07-07-03

Time: 08:22

Photographer: Leigh Peters

Description: Photo facing northeast showing the erosion

gullies and catch basin located in the northeast portion of the ONCA SBPA

cover.





Proj. #: 46526

Roll: 45 Photo #9
Date: 07-07-03 Time: 08:27

Photographer: Leigh Peters

Description: Photo facing south showing the erosion

gully and exposed geotextile fabric near the catch basin located on the southeast

portion of the ONCA SBPA.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 45 Photo #10 Date: 07-10-03 Time: 08:06

Photographer: Leigh Peters

Description: Photo facing southwest showing where the

excess concrete was removed and consolidated into rolloffs, located west of

the GWTP.





Proj. #: 46526

Roll: 45 Photo #11 Date: 07-10-03 Time: 08:16

Photographer: Leigh Peters

Description: Photo facing east showing the ONCA

SBPA after heavy storms. Note fence blown down and erosion present in the

ONCA SBPA interim cover.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 45 Photo #12 Date: 07-10-03 Time: 08:25

Photographer: Leigh Peters

Description: Photo facing northeast showing Austgen

placing concrete to install a fencepost to secure the gate surrounding the thermal

oxidizers at the GWTP.





American Chemical Services, Inc. Site:

46526 Proj. #:

Photo #13 Roll: 45 Time: 08:50 Date: 07-10-03

Photographer: Leigh Peters

Description: Photo facing southwest showing a leaking

fitting on Thermal Oxidizer Unit 1. Note reconfigured piping and location for the pH

and conductivity probes.

Site: American Chemical Services, Inc.

Proj. #: 46526

Photo #14 Roll: 45 Time: 09:05 Date: 07-10-03

Photographer: Leigh Peters

Description: Photo facing south showing MWH

installing the quench nozzles and piping and flowmeter into Thermal Oxidizer Unit 2.





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Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 45 Photo #15 Date: 07-10-03 Time: 09:05

Photographer: Leigh Peters

Description: Photo facing south showing MWH

installing the quench nozzles and piping and flowmeter into Thermal Oxidizer Unit 2.

978

Site: American Chemical Services, Inc.

Proj. #: 46526

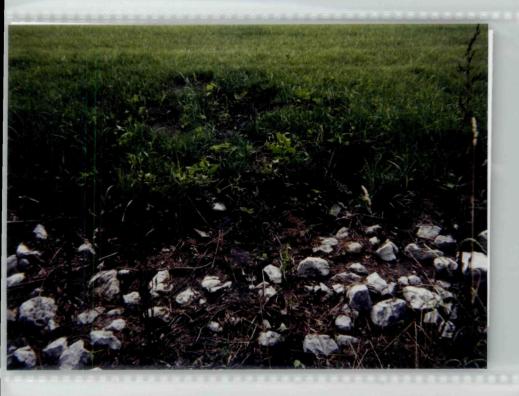
Roll: 45 Photo #16 Date: 07-10-03 Time: 11:15

Photographer: Leigh Peters

Description: Photo facing south showing the OFCA

topsoil cover eroding into swale 1 near

extraction well EW-12.





Proj. #: 46526

Roll: 45 Photo #17 Date: 07-10-03 Time: 11:20

Photographer: Leigh Peters

Description: Photo facing east showing the erosion in

the OFCA cover near piezometer P116.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 45 Photo #18 Date: 07-10-03 Time: 11:22

Photographer: Leigh Peters

Description: Photo facing north showing the standing

water and erosion where the fiber optic conduit for the OFCA ISVE system is buried in swale 4 near the detention pond.





N

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 45 Photo #19 Date: 07-14-03 Time: 07:50

Photographer: Leigh Peters

Description: Photo facing south showing the damaged

piping on Thermal Oxidizer Unit 1

scrubber.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 45 Photo #20 Date: 07-14-03 Time: 09:15

Photographer: Leigh Peters

Description: Photo facing west showing MWH donning

respirators and wearing air monitoring equipment for ISVE well water level

gauging.





Proj. #: 46526

Roll: 45 Photo #21 Date: 07-14-03 Time: 09:17

Photographer: Leigh Peters

Description: Photo facing west showing MWH

monitoring the breathing zone at SVE-01

with the PID/FID.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 45 Photo #22
Date: 07-14-03 Time: 09:20

Photographer: Leigh Peters

Description: Photo facing west showing MWH cleaning

product from the water level tape at SVE-

01.





92

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 45 Photo #23 Date: 07-14-03 Time: 09:47

Photographer: Leigh Peters

Description: Photo facing west showing MWH

conducting air monitoring at SVE-40 with

Drager tubes.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 45 Photo #24 Date: 07-14-03 Time: 11:51

Photographer: Leigh Peters

Description: Photo facing west showing MWH

measuring the water level and air monitoring with Drager tubes at AS-1.





Proj. #: 46526

Roll: 45 Photo #25
Date: 07-14-03 Time: 14:12

Photographer: Leigh Peters

Description: Photo facing east showing the burrowed

tunnel and sand pile in OFCA swale 3.

Site: American Chemical Services, Inc.

Proj. # 46526

Roll: 45 Photo #26 Date: 07-24-03 Time: 08:04

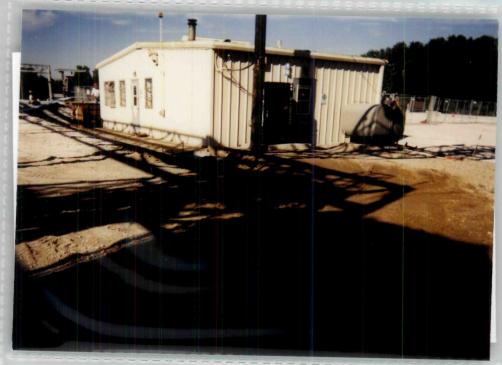
Photographer: Leigh Peters

Description: Photo facing south showing the base of the

retaining wall to be installed at the ACS employee break building by Ryan

Construction.





S

Site: American Chemical Services, Inc.

Proj. # 46526

Roll: 45 Photo #27 Date: 07-24-03 Time: 08:16

Photographer: Leigh Peters

Description: Photo facing west showing Ryan

Construction installing forms for the concrete retaining wall located south of the

ACS employee break builidng.

20

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 46 Photo #1
Date: 07-24-03 Time: 08:30

Photographer: Leigh Peters

Description: Photo facing southwest at the graded area

where some of the native ground was removed north of the ACS employee

break room building.





Proj. #: 46526

Roll: 46 Photo #2
Date: 07-24-03 Time: 08:45

Photographer: Leigh Peters

Description: Photo facing west showing the clay

stockpile from the ONCA SBPA cover placed near the low spot at MW-10C.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 46 Photo #3 Date: 07-24-03 Time: 09:00

Photographer: Leigh Peters

Description: Photo facing north showing erosion in the

gravel on the south ONCA SBPA cover. Note: phone placed at the catch basin, field

log book placed in erosion gully.





Proj. #: 46526

Roll: 46 Photo #4
Date: 07-24-03 Time: 09:05

Photographer: Leigh Peters

Description: Photo facing southeast showing the erosion

of the northwest corner of the ONCA SBPA cover. Note exposed geotextile

fabric.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 46 Photo #5

Date: 08-08-03 Time: 15:20

Photographer: Larry Campbell

Description: Photo facing north showing the new

retaining wall on the west side of the ACS

employee break room building.





Proj. #: 46526

Roll: 46 Photo #6

Date: 08-08-03 Time: 13:20

Photographer: Larry Campbell

Description: Photo facing north showing the new

retaining wall on the east side of the ACS

employee break room building.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 46 Photo #7
Date: 08-08-03 Time: 13:20

Photographer: Larry Campbell

Description: Photo facing west showing the new

retaining wall on the south side of the ACS

employee break room building.





Proj. #: 46526

Roll: 46 Photo #8
Date: 08-08-03 Time: 15:35

Photographer: Larry Campbell

Description: Photo facing southwest from the northeast

corner of the ONCA SBPA near the ACS loading dock showing an approximately

10-feet-long erosion gully.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 46 Photo #9

Date: 08-08-03 Time: 15:36

Photographer: Larry Campbell

Description: Photo facing east along the north side of

the fencing around the eastern ONCA SBPA ISVE system well field. Note fencing secured with cords and sand bags.